

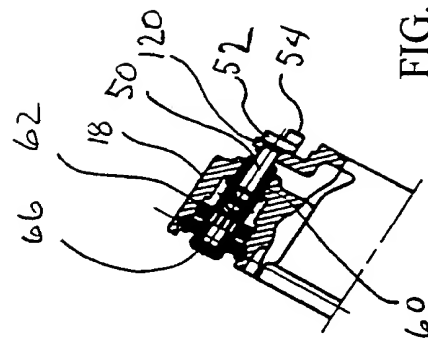
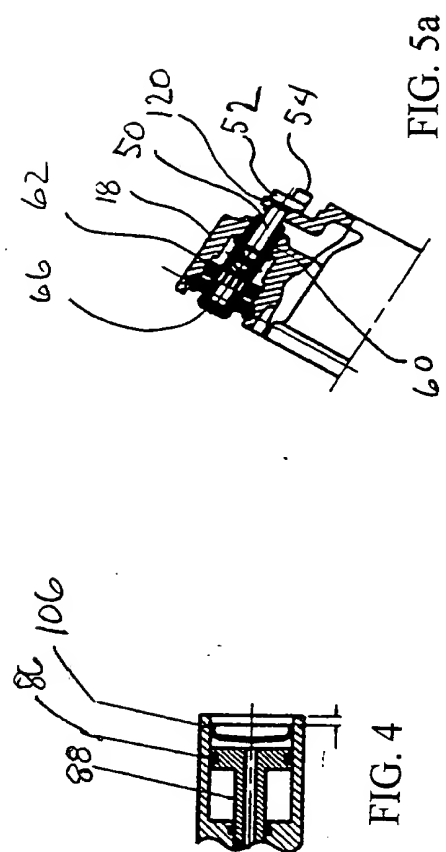
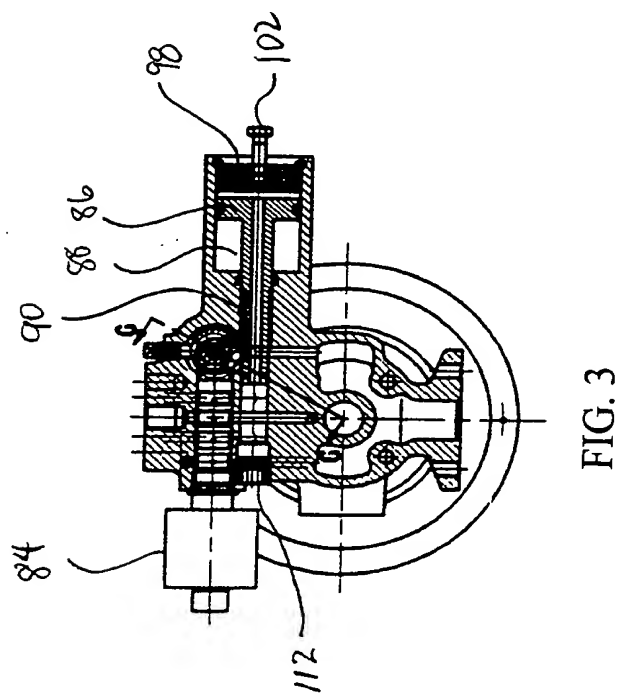
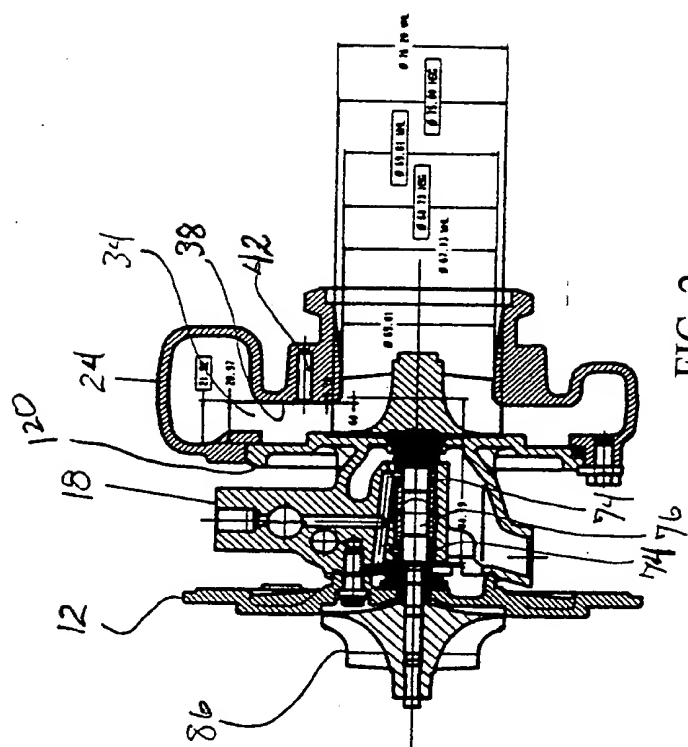
FIG. 1

10578 U.S. PTO

09/408694



09/30/99



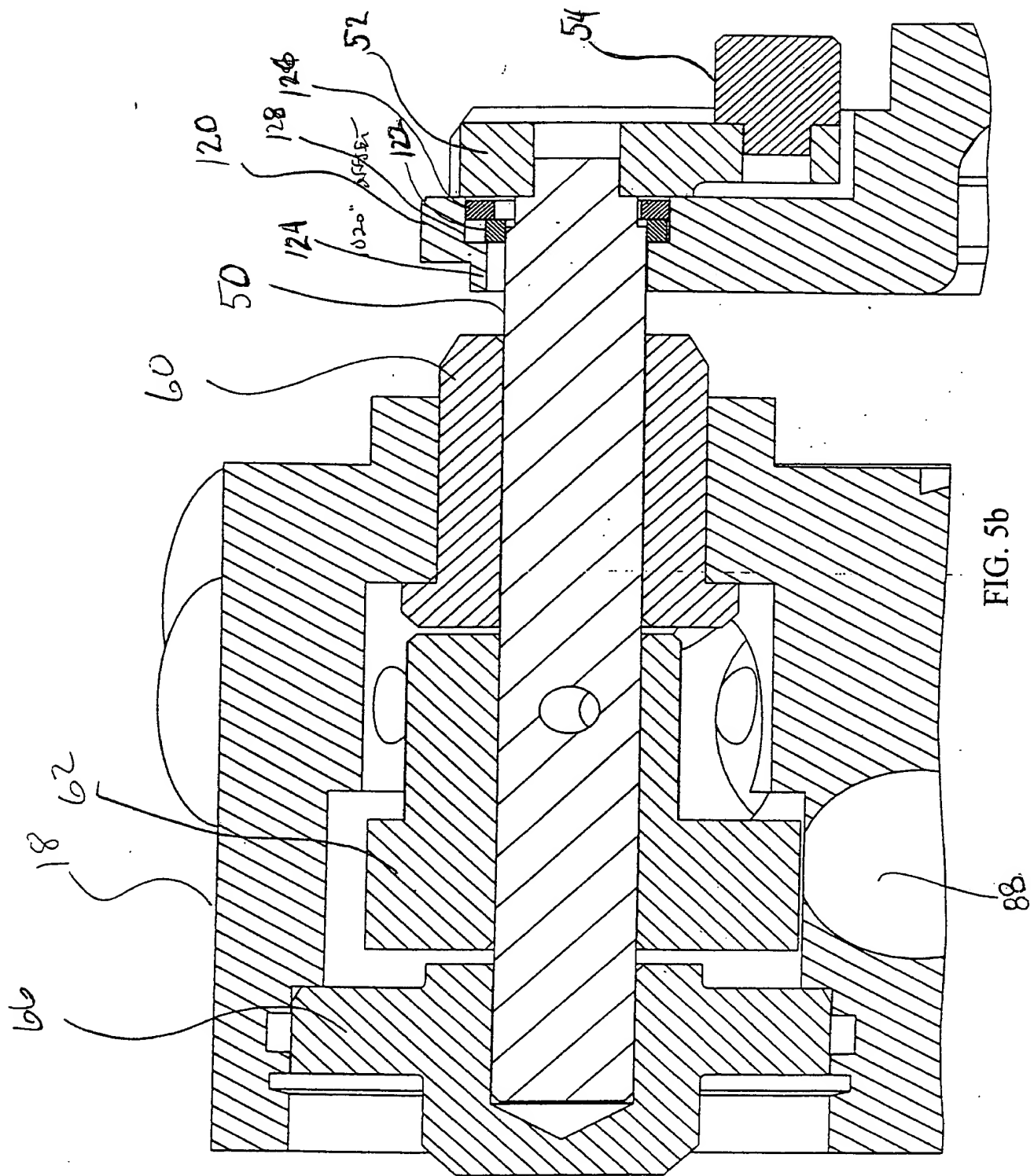


FIG. 5b

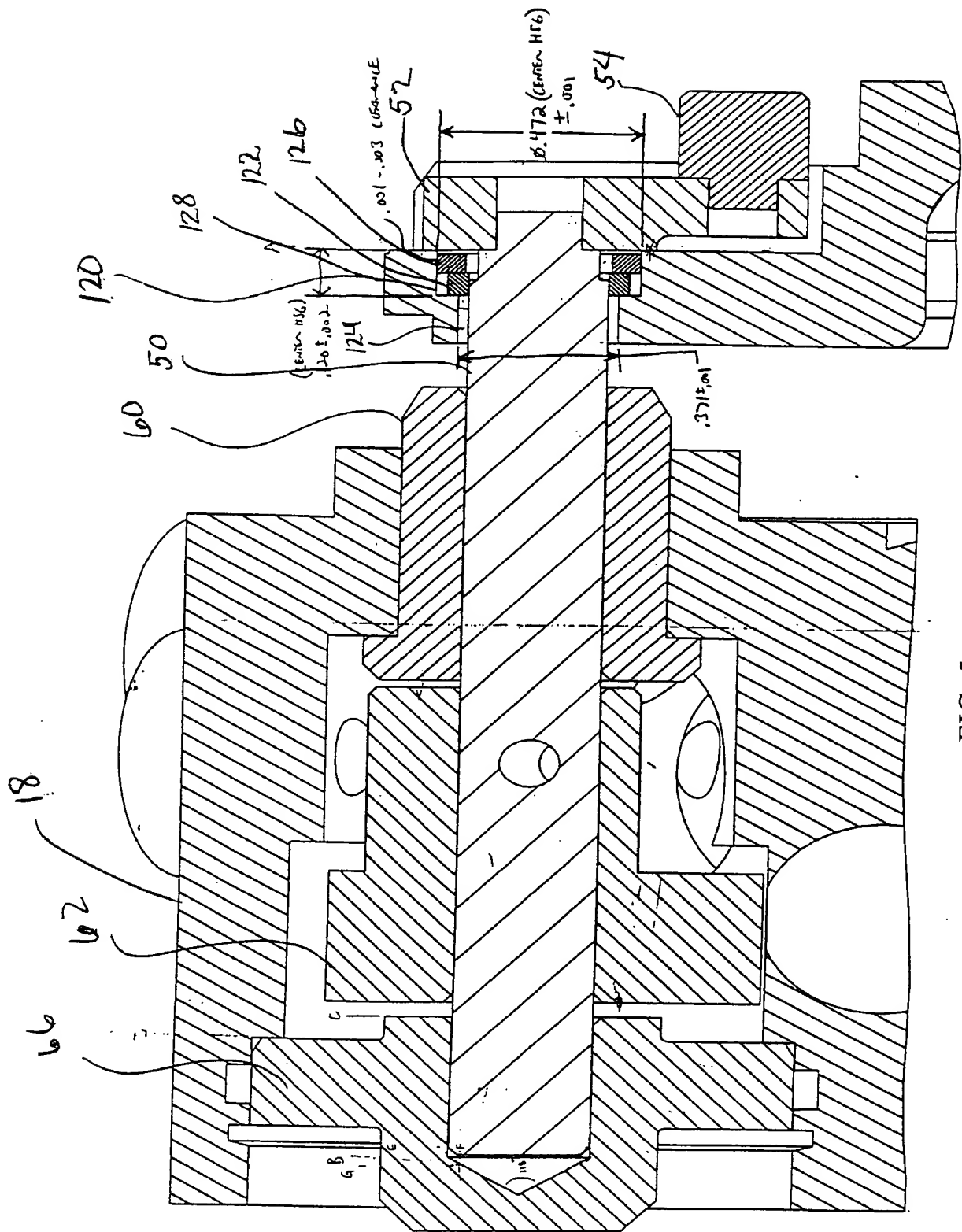


FIG. 5c

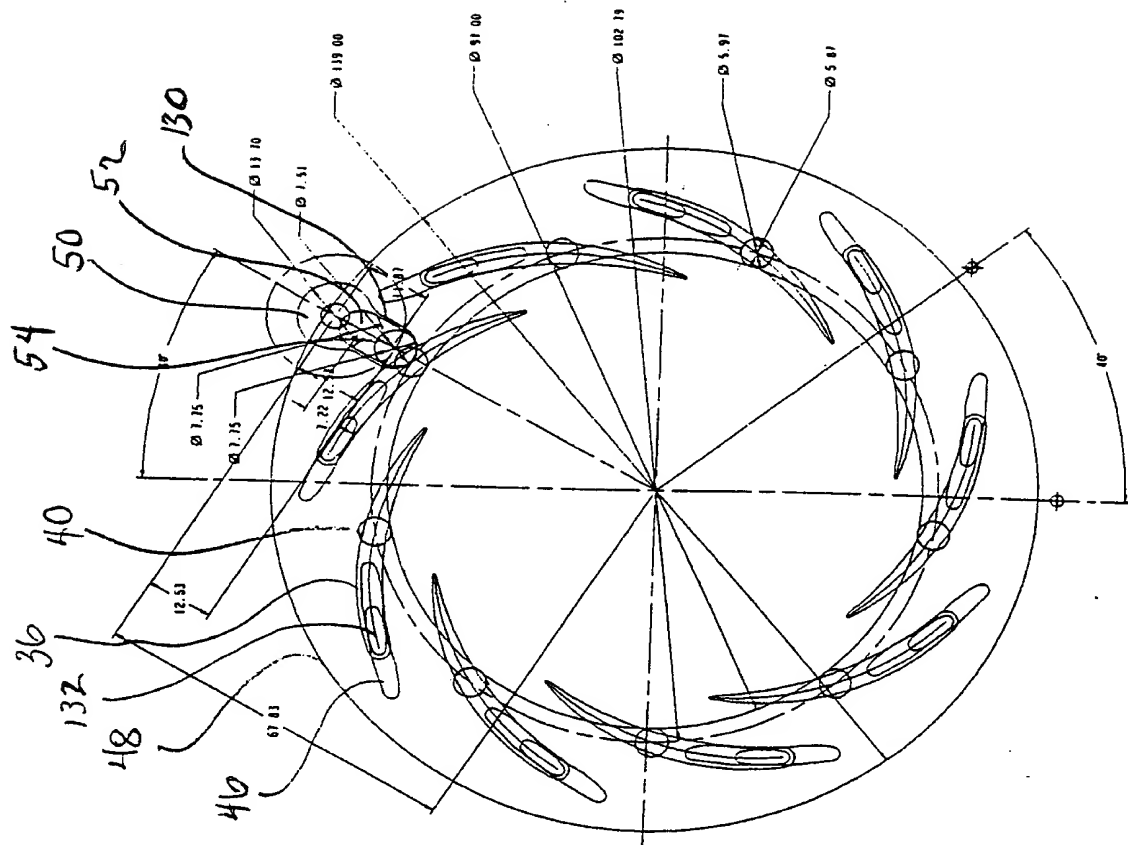


FIG. 6a

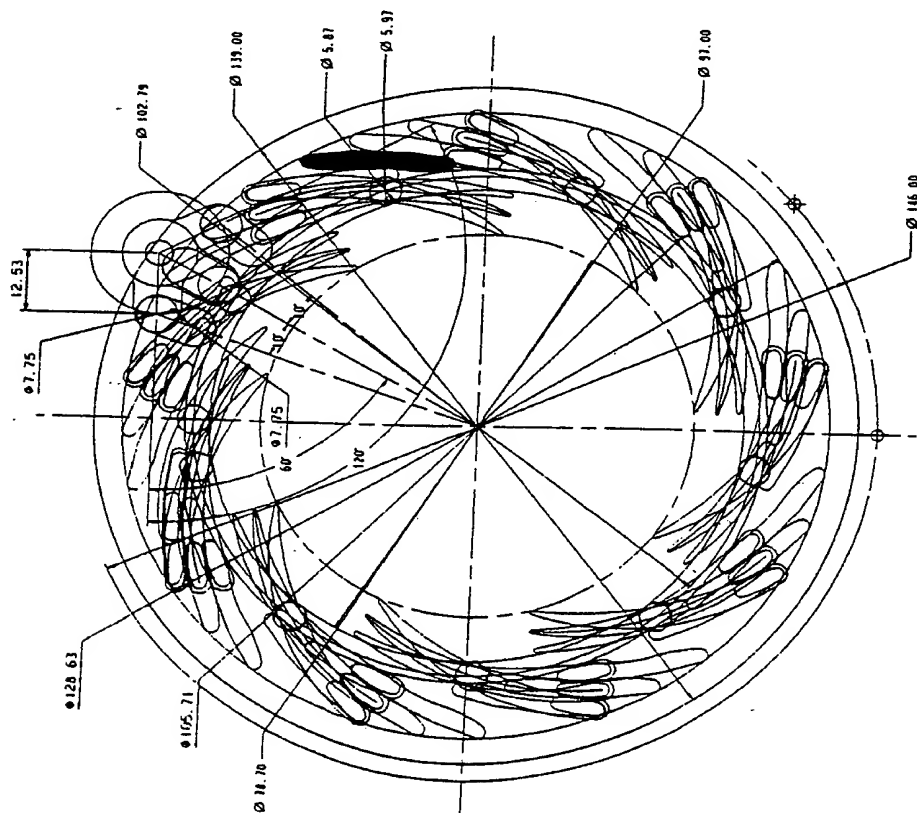


FIG. 6b

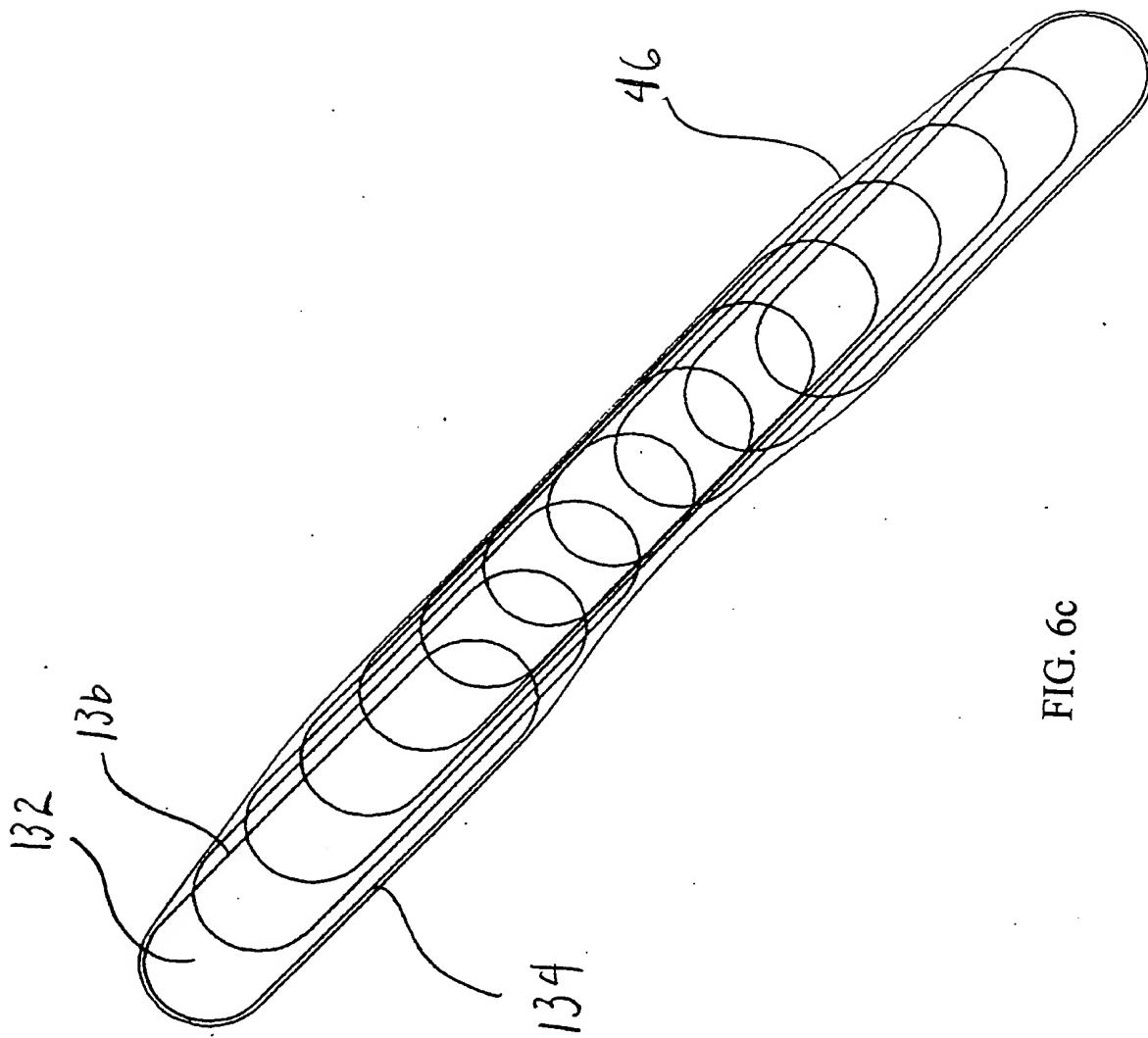


FIG. 6c

Throat
mm

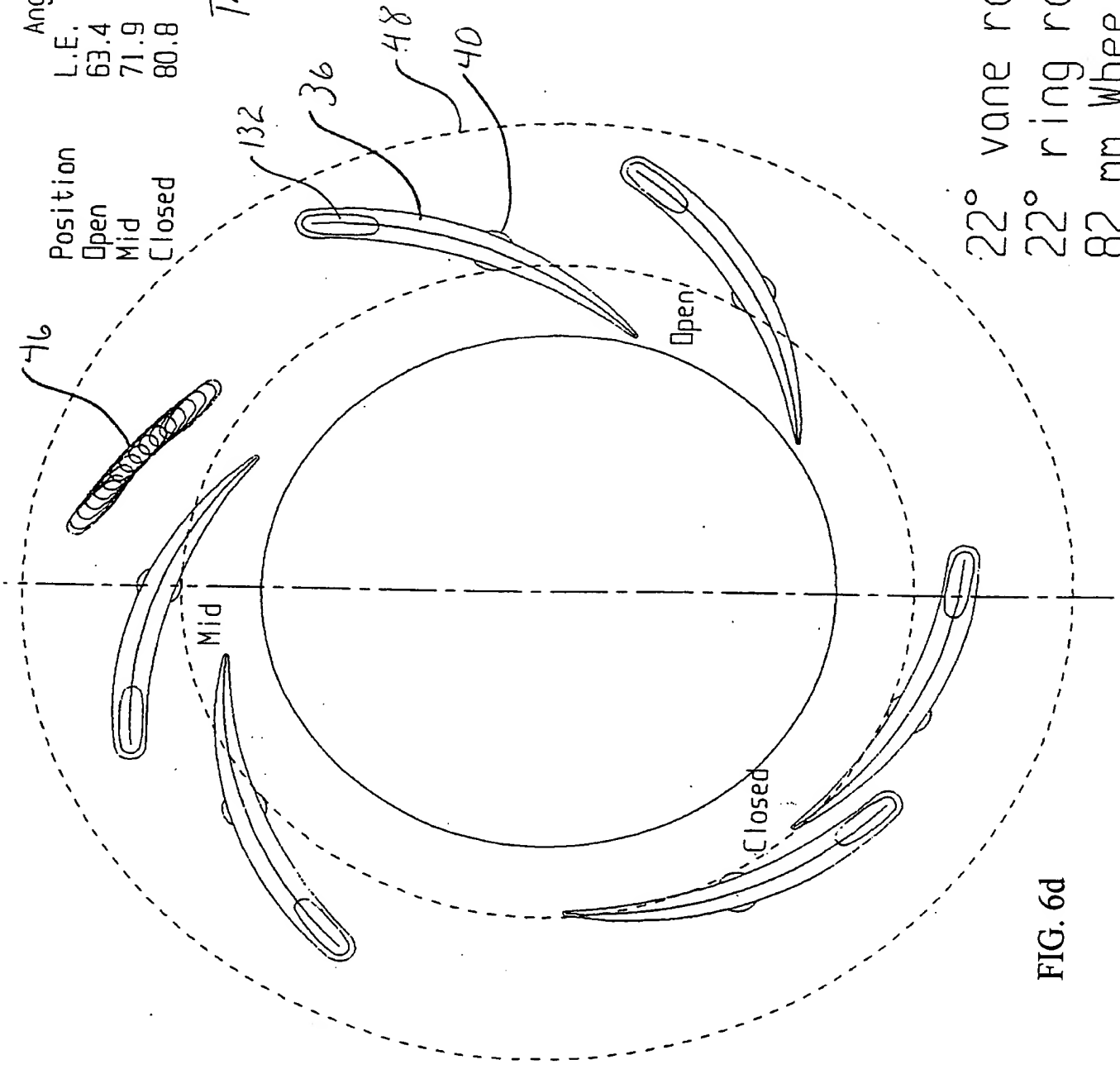
Angles
L.E. T.E.

Position
Open
Mid
Closed

15.37
9.64
2.61

63.4 59.0
71.9 71.4
80.8 82.5

TABLE 1



22° vane rotation
22° ring rotation
82 mm Wheel Ø

FIG. 6d

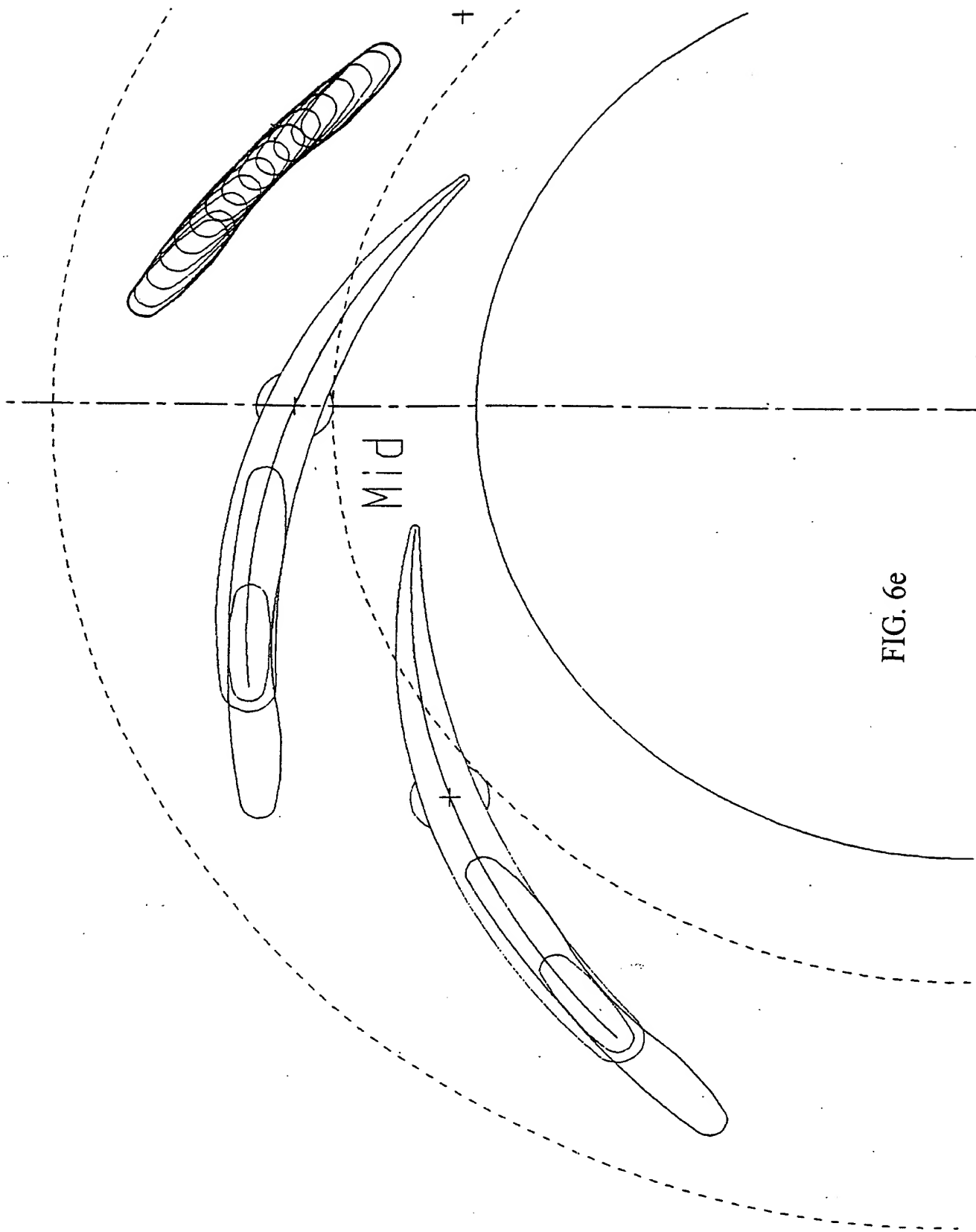


FIG. 6e

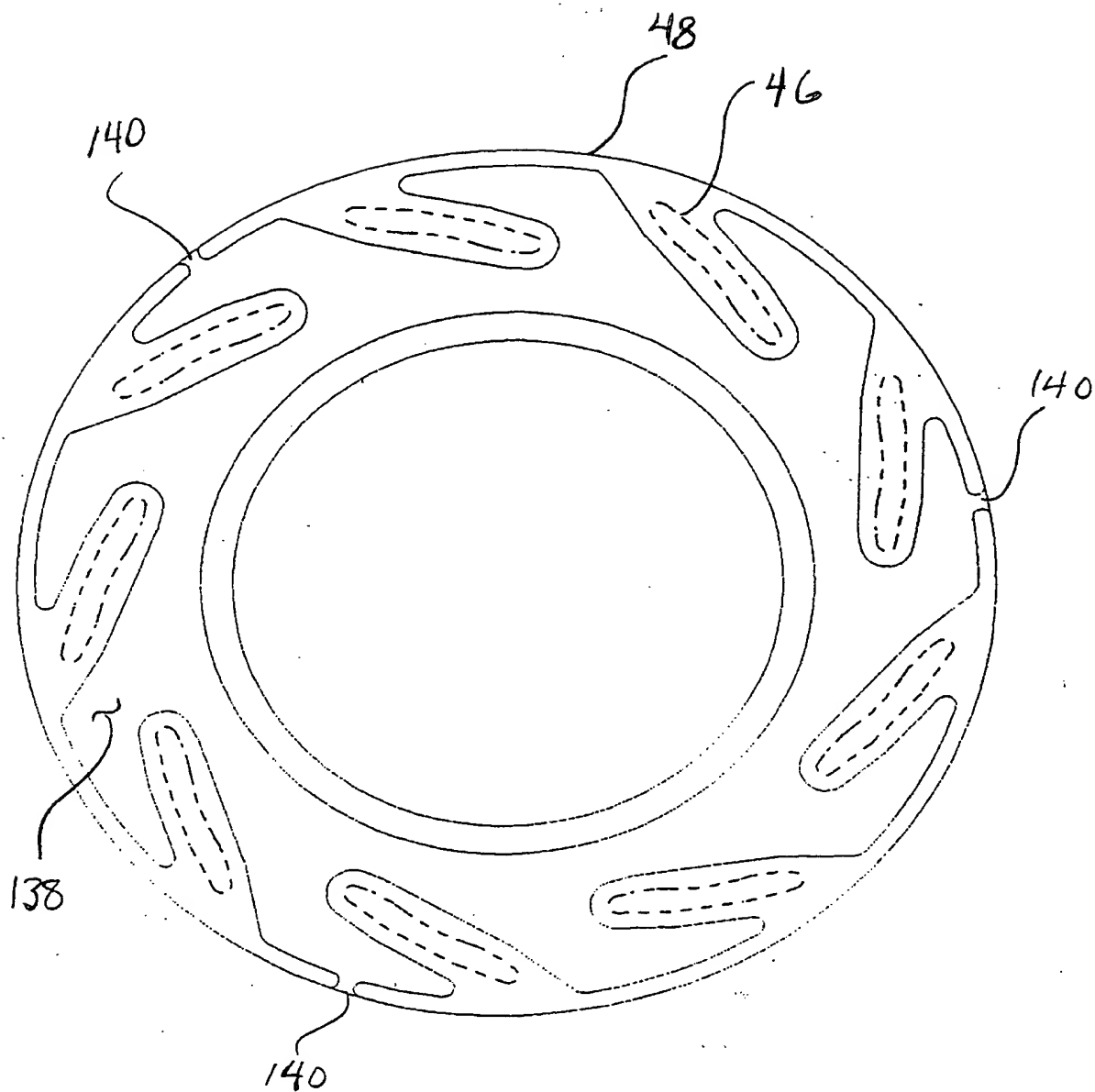


FIG. 7

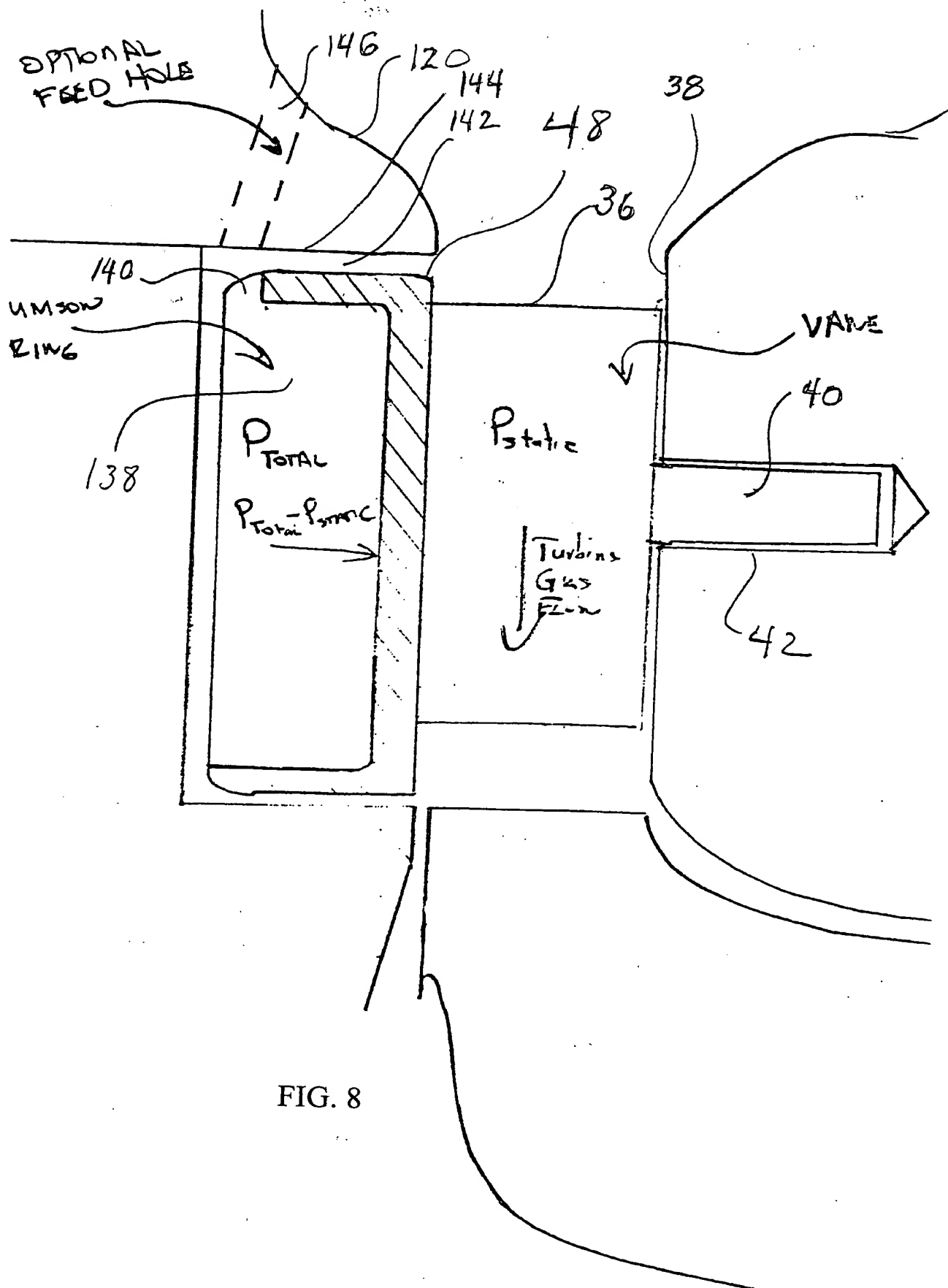


FIG. 8

1. NO CURRENT

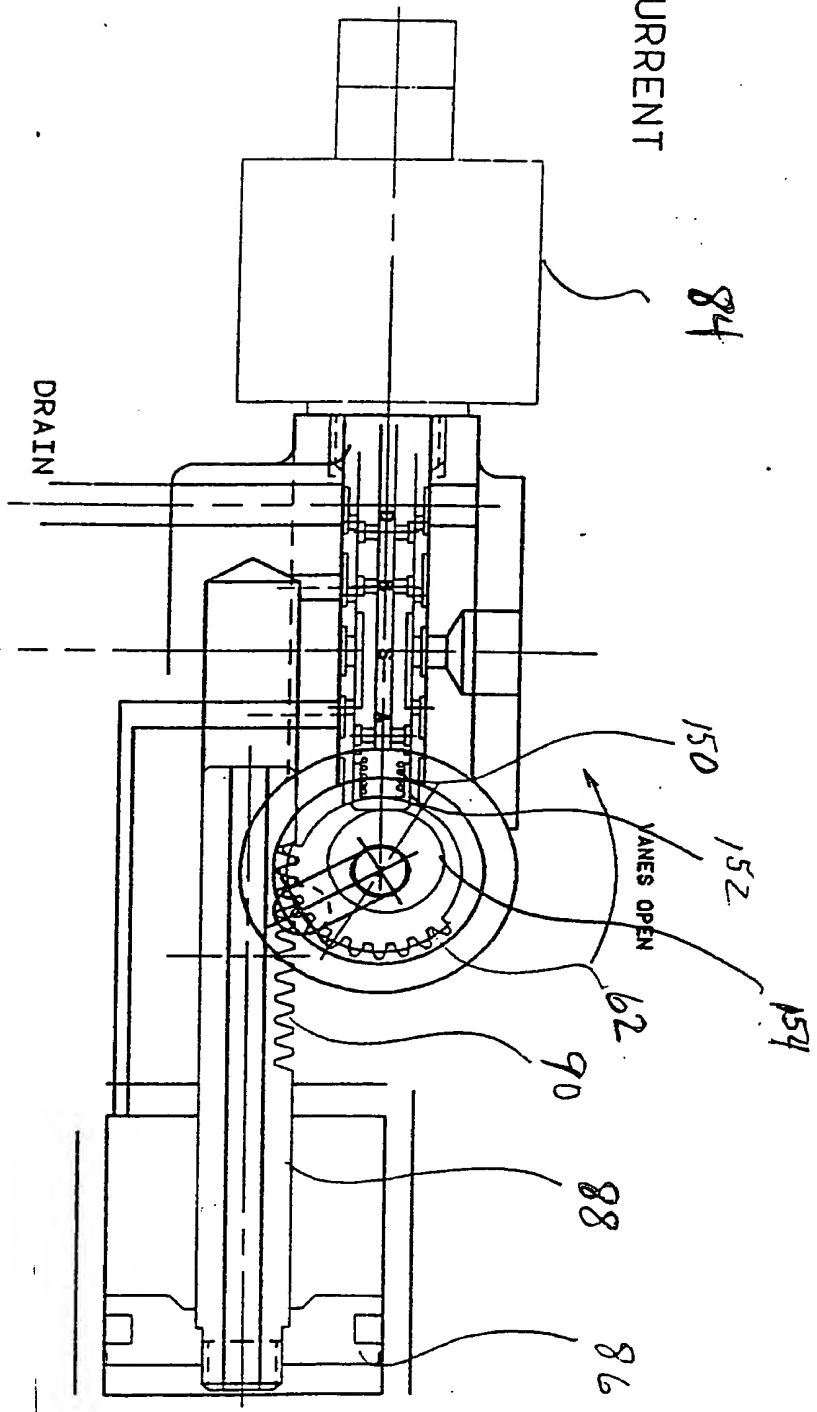


FIG. 9a

2. LOW CURRENT IN SOLENOID

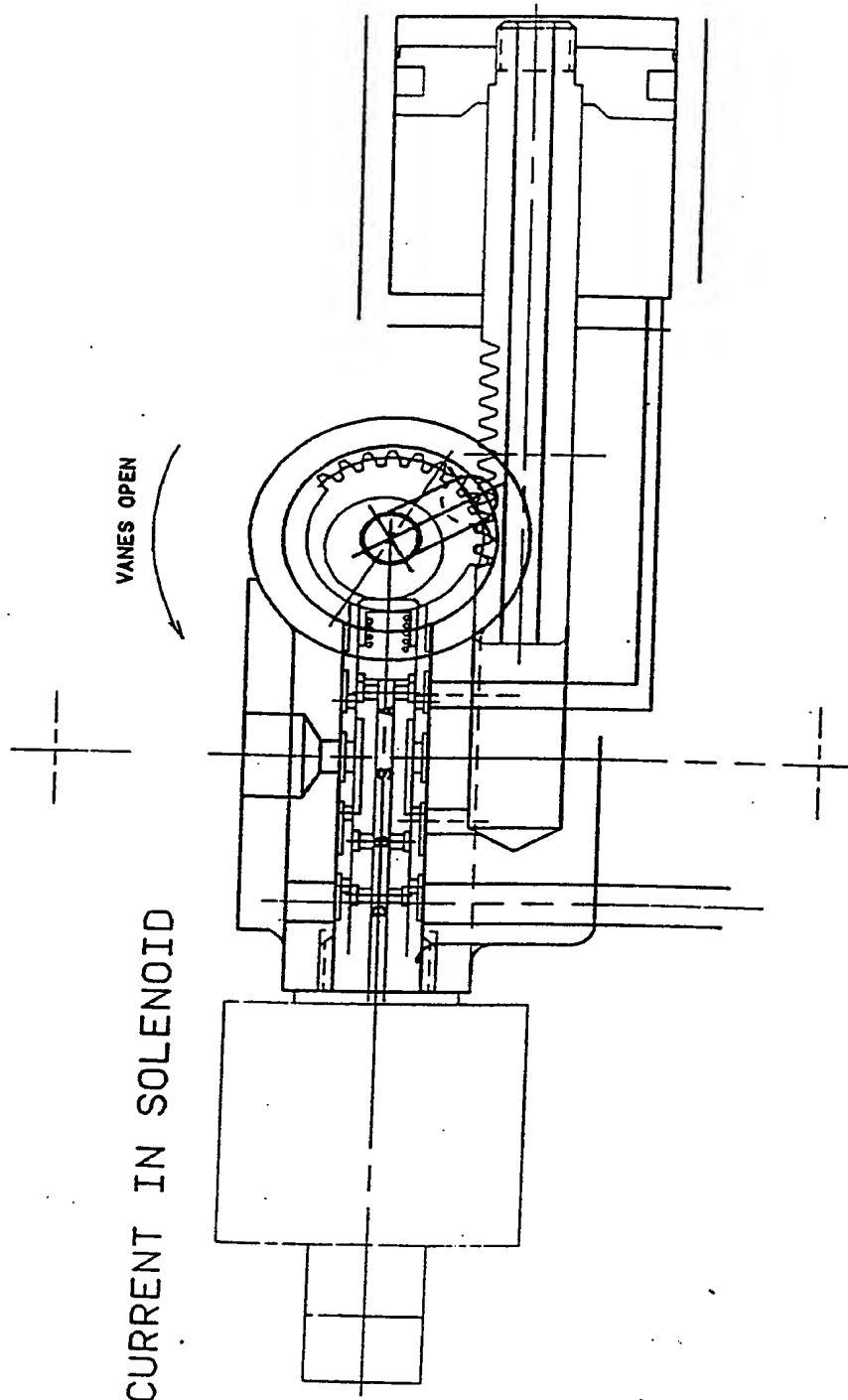


FIG. 9b

3. BALANCED STATE LOW CURRENT

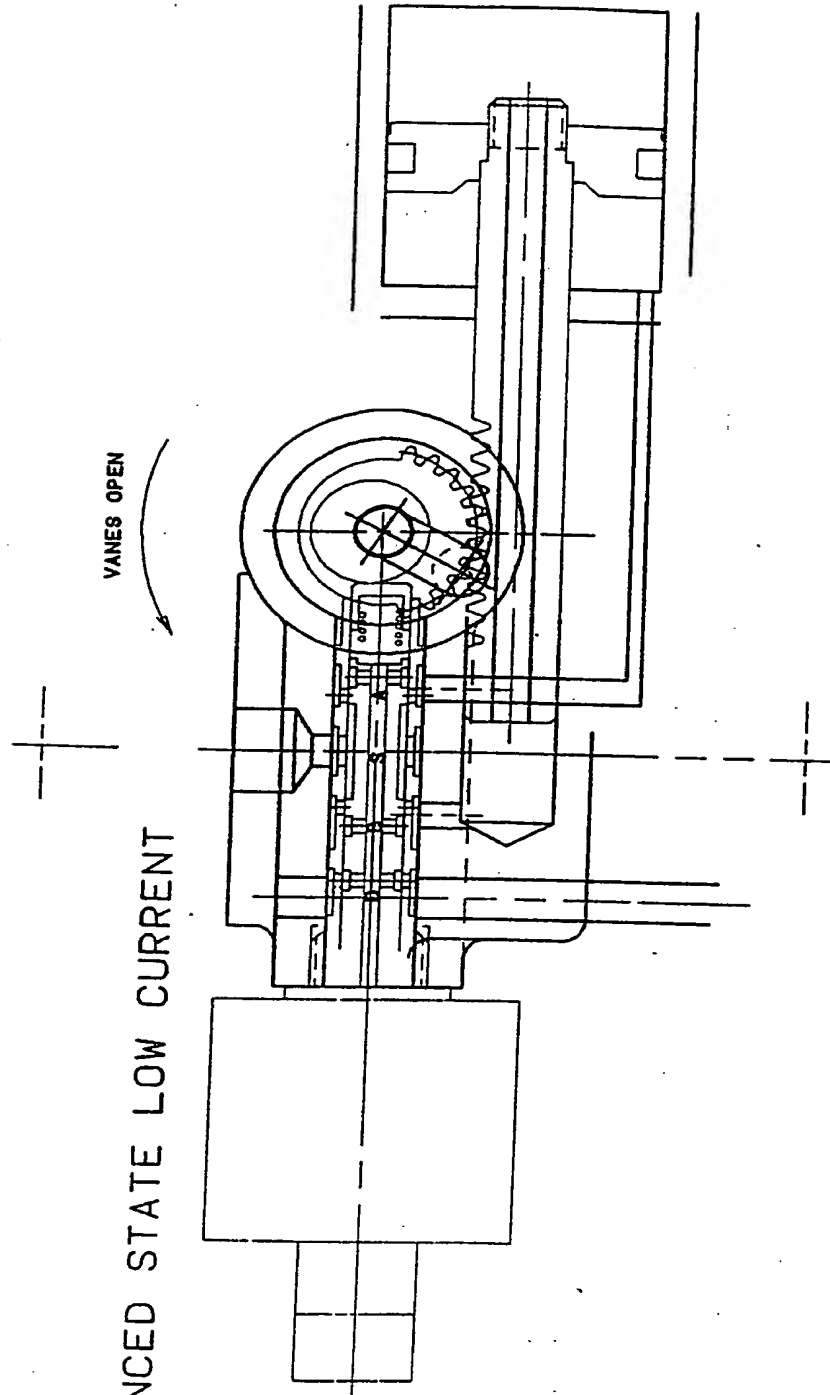
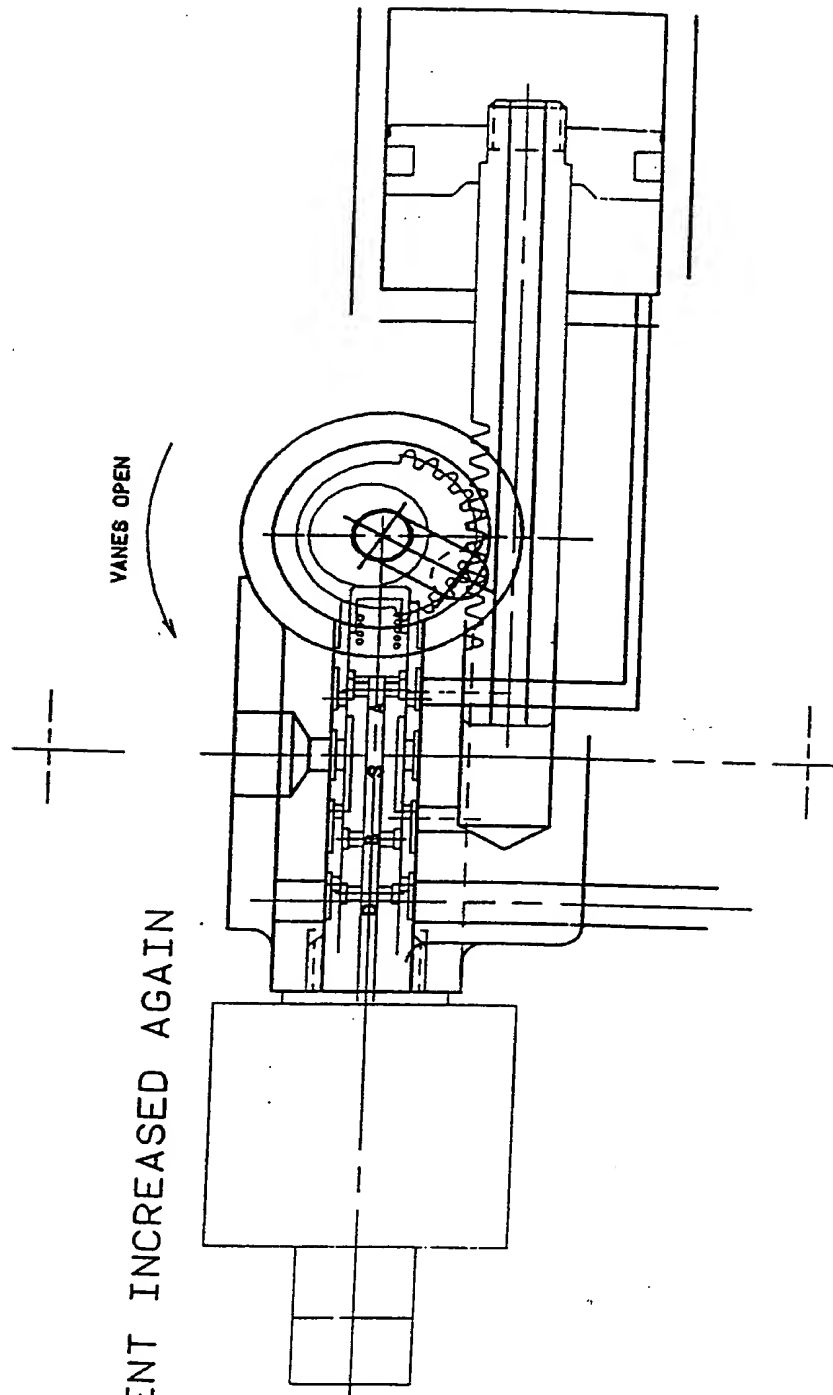


FIG. 9c



4. CURRENT INCREASED AGAIN

FIG. 9d

5. BALANCED STATE HIGH CURRENT

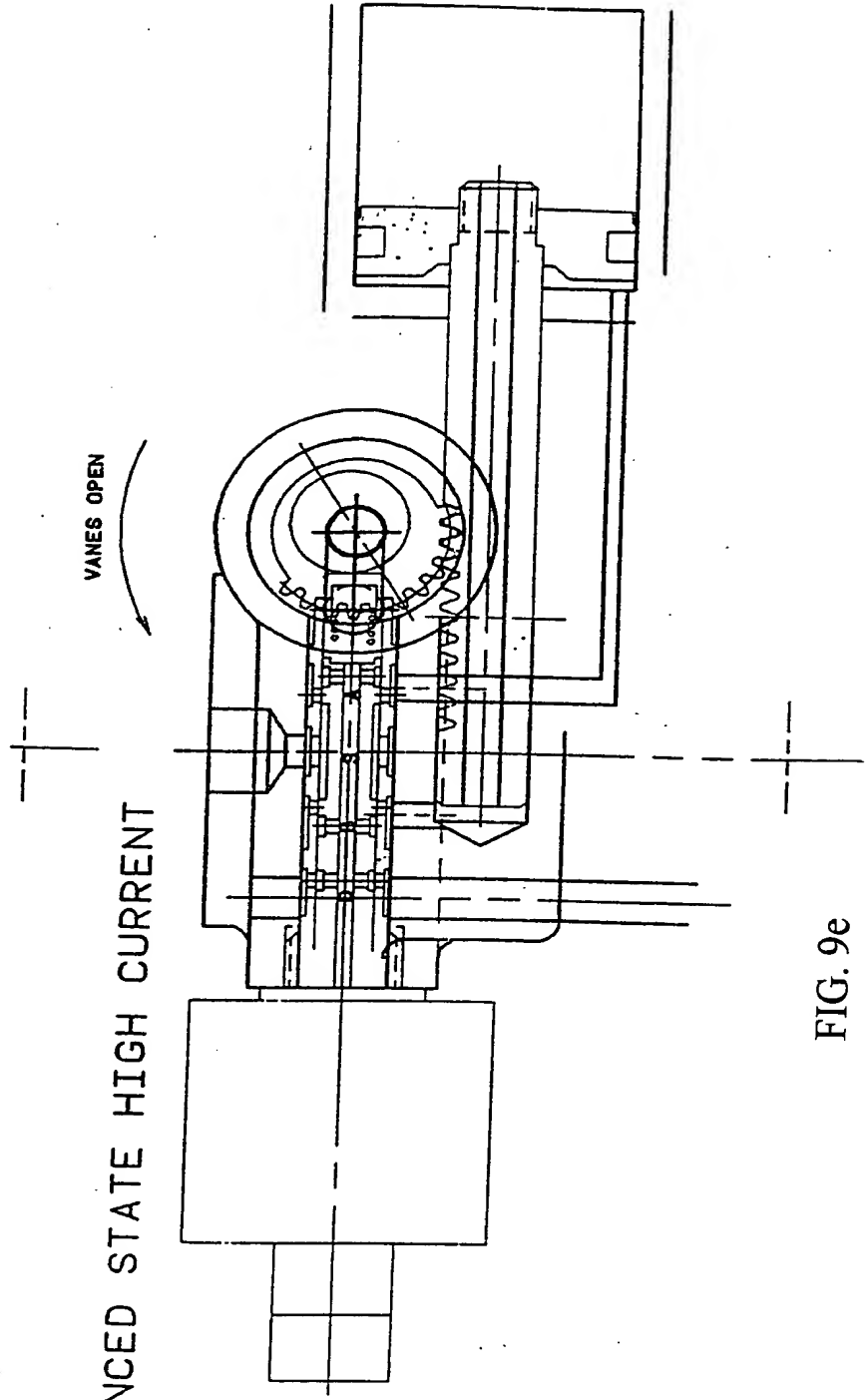


FIG. 9e